

Applicant: Miller et al.
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Filed: March 22, 2004
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Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

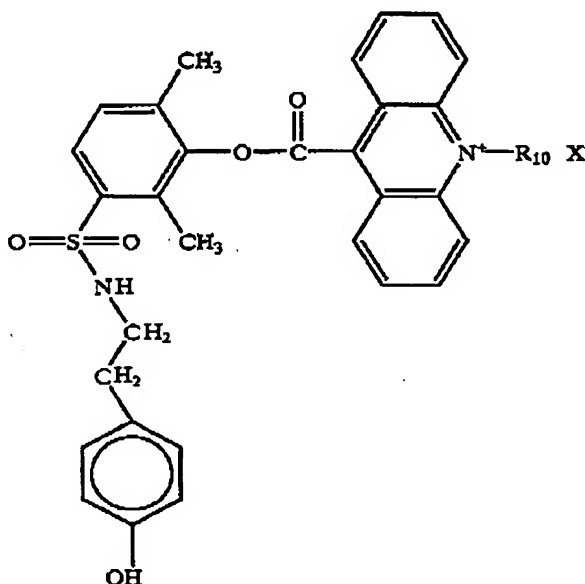
1-14. (Cancelled)

15. (Currently amended) A method for detecting an analyte of a sample, comprising the steps of:

contacting a compound with ~~the analyte~~ an antibody-bound analyte having a binding site for the compound; and

detecting the presence of the compound,

wherein the compound has the formula



and wherein R₁₀ is methyl or (CH₂)₃SO₃, and X⁻ is a counter ion

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16. (Previously presented) The method of claim 15, further comprising a step of exposing the compound to an enzyme.

17. (Previously presented) The method of claim 16, wherein the enzyme is horseradish peroxidase.

18. (Previously presented) The method of claim 16, wherein the enzyme is coupled to an antibody.

19. (Previously presented) The method of claim 15, wherein the steps are performed at a basic pH.

20. (Previously presented) The method of claim 19, wherein the pH is between about 7 and about 8.5.

21. (Currently amended) The method of claim 15, wherein the detecting step comprises measuring the amount of the compound to determine the concentration of the compound.

22. (Previously presented) The method of claim 15, wherein the detecting step comprises measuring a chemiluminescent signal.

23. (Previously presented) The method of claim 22, wherein the chemiluminescent signal is measured at a wavelength of 360 nm

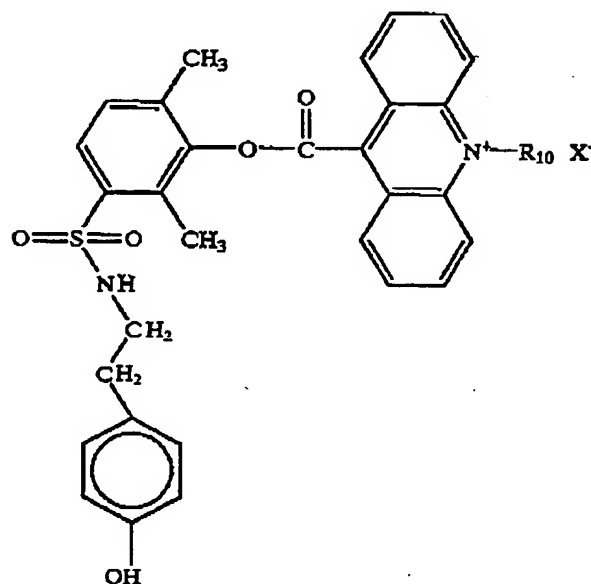
24. (Previously presented) The method of claim 15, further comprising a step of immobilizing the analyte on a substrate.

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25. (Previously presented) The method of claim 23, wherein the substrate comprises magnetic particles.

26. (Currently amended) A composition for detecting an analyte in a sample, comprising:

a compound having the formula



wherein R_{10} is methyl or $(\text{CH}_2)_3\text{SO}_3$, and X^- is a counter ion.

27. (Previously presented) The composition of claim 26, wherein the composition is a liquid.

28. (Previously presented) The composition of claim 26, wherein the composition has a pH of about 5 to about 7.

29. (Previously presented) The composition of claim 28, wherein the compound has a shelf life of at least six months.

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30. (New) The method of claim 15, wherein X^- is selected from the group consisting of $CH_3SO_4^-$, OSO_2F^- , Cl^- , Br^- , $OSO_2CH_3^-$, and $OSO_2C_4H_9^-$.

31. (New) The composition of claim 26, wherein X^- is selected from the group consisting of $CH_3SO_4^-$, OSO_2F^- , Cl^- , Br^- , $OSO_2CH_3^-$, and $OSO_2C_4H_9^-$.